



## FIG. 1

Primers for PCR Amplification the DHFR Deletion Polymorphism Region

Forward primer(SEQ ID NO:38): 5'-CTA AAC TGC ATC GTC GCT GTG-3'

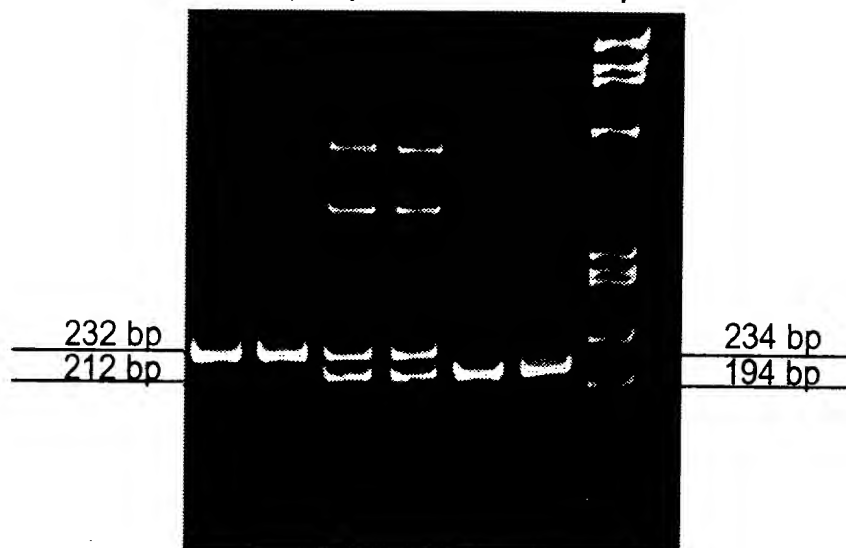
Reverse primer(SEQ ID NO:39): 5'-AAA AGG GGA ATC CAG TCG G-3'

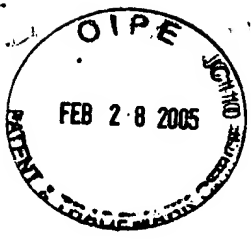


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## FIG. 2

Genotypes of the DHFR 19 bp Deletion  
by Non-Polyacrylamide Gel Electrophoresis





## FIG. 3

Sequences of PCR Amplification Products  
in the Region of the DHFR Deletion Polymorphism Region

Allele 1	GCTGCCACGGTCGGGGTACCTGGGCGGGACGCGCCAGGCCGACTCCCGGCGAGA	*
Allele 2	GCTGCCACGGTCGGGGT.....GGCCGACTCCCGGCGAGA	



## FIG. 4A

1	CTGCAGCGCC	AGGGTCCACC	TGGTCGGCTG	CACCTGTGGA	GGAGGAGGTG
51	GATTTTCAGGC	TTCCCGTAGA	CTGGAAGAAT	CGGCTCAAAA	CCGCTTGCCCT
101	CGCAGGGGCT	GAGCTGGAGG	CAGCGAGGCC	GCCCGACGCA	GGCTTCCGGC
151	GAGACATGGC	AGGGCAAGGA	TGGCAGCCCG	GCGGCAGGGC	CCGGCGAGGA
201	GCGCGAACCC	GCGGCCGCAG	TTCCAGGCG	TCTGCGGGCG	CGAGCACGCC
251	GCGACCCTGC	GTGCGCCGGG	GCGGGGGGGC	GGGGCCTCGC	CTGCACAAAT
301	AGGGACGAGG	GGGCGGGGCG	GCCACAATTT	CGCGCCAAAC	TTGACCGCGC
351	GTTCTGCTGT	AACGAGCGGG	CTCGGAGGTC	CTCCCGCTGC	TGTCATGGTT
401	GGTTCGCTAA	ACTGCATCGT	CGCTGTGTCC	CAGAACATGG	GCATCGGCAA
451	GAACGGGGAC	CTGCCCTGGC	CACCGCTCAG	GTATCTGCCG	GGCCGGGGCG
501	ATGGGACCCA	AACGGGCGCA	GGCTGCCCCAC	GGTCGGGGTA	CCTGGGCGGG
551	ACGCGCCAGG	CCGACTCCCG	GCGAGAGGAT	GGGGCCAGAC	TTGCGGTCTG
601	CGCTGGCAGG	AAGGGTGGGC	CCGACTGGAT	TCCCCTTTTC	TGCTGCGCGG
651	GAGGCCCAGT	TGCTGATTTT	TGCCCGGATT	CTGCTGCCCC	GTGAGGTCTT
701	TGCCCTGCGG	CGCCCTCGCC	CAGGGCAAAG	TCCCAGCCCT	GGAGAAAACA
751	CCTCACCCCT	ACCCACAGCG	CTCCGTTTGT	CAGGTGCCTT	AGAGCTCGAG
801	CCCAAGGGAT	AATGTTTCGA	GTAACGCTGT	TTCTCTAACT	TGTAGGAATG
851	AATTCAGATA	TTTCCAGAGA	ATGACCACAA	CCTCTTCAGT	AGAAGGTAAT
901	GTGGGATTAA	GTAGGGTCTT	GCTTGATGAA	GTTTACCAGT	GCAAATGTTA
951	GTTAAATGGA	AAGTTTTCCG	TGTTAATCTG	GGACCTTTTC	TCTTATTATG
1001	GATCTGTATG	ATCTGTATGC	AGTTCCCAAG	G TTCATTTAC	CATTATTAAA
1051	AAATTTTTGT	CTTAGAAATT	TTATGTATGT	CAACGCACGA	GCAAATTATC
1101	AGGCATGGGG	CAGAATTGGC	AACTGGGTGG	AGGCTTCGGT	GGAGGTTAGC
1151	ACTCCGAAAG	GAAAACAGAG	TAGGCCTTTG	GAACAGCTGC	TGGAAGAGAT
1201	AAGGCCTGAA	CAAGGGCAGT	GGAGAAGAGA	GGGTAAAAAT	TTTTTAAGGT
1251	TACATGACCC	TGGATTTTGG	AGATC		



## FIG 4B

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1 CTGCAGCGCC AGGGTCCACC TGGTCGGCTG CACCTGTGGA GGAGGAGGTG
51 GATTTCAGGC TTCCCGTAGA CTGGAAGAAT CGGCTCAAAA CCGCTTGCCT
101 CGCAGGGGCT GAGCTGGAGG CAGCGAGGCC GCCCGACGCA GGCTTCCGGC
151 GAGACATGGC AGGGCAAGGA TGGCAGCCCG GCGGCAGGGC CCGGCGAGGA
201 GCGCGAACCC GCGGCCGCAG TTCCAGGGCG TCTGCGGGCG CGAGCACGCC
251 GCGACCCTGC GTGCGCCGGG GCGGGGGGGC GGGGCCTCGC CTGCACAAAT
301 AGGGACGAGG GGGCGGGGCG GCCACAATTT CGCGCCAAAC TTGACCGCGC
351 GTTCTGCTGT AACGAGCGGG CTCGGAGGTC CTCCCGCTGC TGTCATGGTT
401 GGTTCGCTAA ACTGCATCGT CGCTGTGTCC CAGAACATGG GCATCGGCAA
451 GAACGGGGAC CTGCCCTGGC CACCGCTCAG GTATCTGCCG GGCCGGGGCG
501 ATGGGACCCA AACGGGCGCA GGCTGCCAC GGTGCGGGT
551 GG CCGACTCCCG GCGAGAGGAT GGGGCCAGAC TTGCGGTCTG
601 CGCTGGCAGG AAGGGTGGGC CCGACTGGAT TCCCCTTTTC TGCTGCGCGG
651 GAGGCCAGT TGCTGATTTT TGCCCGGATT CTGCTGCCCC GTGAGGTCTT
701 TGCCCTGCGG CGCCCTCGCC CAGGGCAAAG TCCAGCCCT GGAGAAAACA
751 CCTCACCCCT ACCCACAGCG CTCCGTTTGT CAGGTGCCTT AGAGCTCGAG
801 CCAAGGGAT AATGTTTCGA GTAACGCTGT TTCTCTAACT TGTAGGAATG
851 AATTCAGATA TTTCCAGAGA ATGACCACAA CCTCTTCAGT AGAAGGTAAT
901 GTGGGATTAA GTAGGGTCTT GCTTGATGAA GTTTACCAGT GCAAATGTTA
951 GTTAAATGGA AAGTTTTCCG TGTTAATCTG GGACCTTTTC TCTTATTATG
1001 GATCTGTATG ATCTGTATGC AGTTCCCAAG GTTCATTTAC CATTATTAAA
1051 AAATTTTGT CTTAGAAATT TTATGTATGT CAACGCACGA GCAAATTATC
1101 AGGCATGGGG CAGAATTGGC AACTGGGTGG AGGCTTCGGT GGAGGTTAGC
1151 ACTCCGAAAG GAAAACAGAG TAGGCCTTTG GAACAGCTGC TGGAAGAGAT
1201 AAGGCCTGAA CAAGGGCAGT GGAGAAGAGA GGTAAAAAT TTTTAAAGGT
1251 TACATGACCC TGGATTTTGG AGATC
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